EOSDIS
NASA'S EARTH OBSERVING SYSTEM
DATA AND INFORMATION SYSTEM

Building an NRT Portal

Let's do this
(if it makes sense)

NASA NRT Workshop
Sep 27-29, 2016

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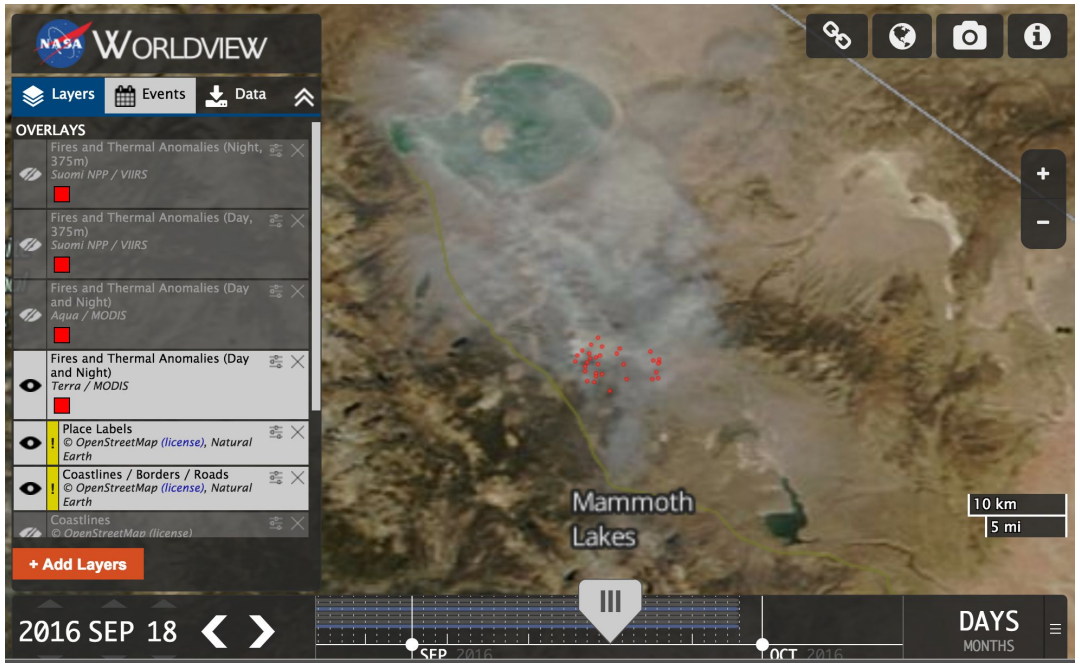
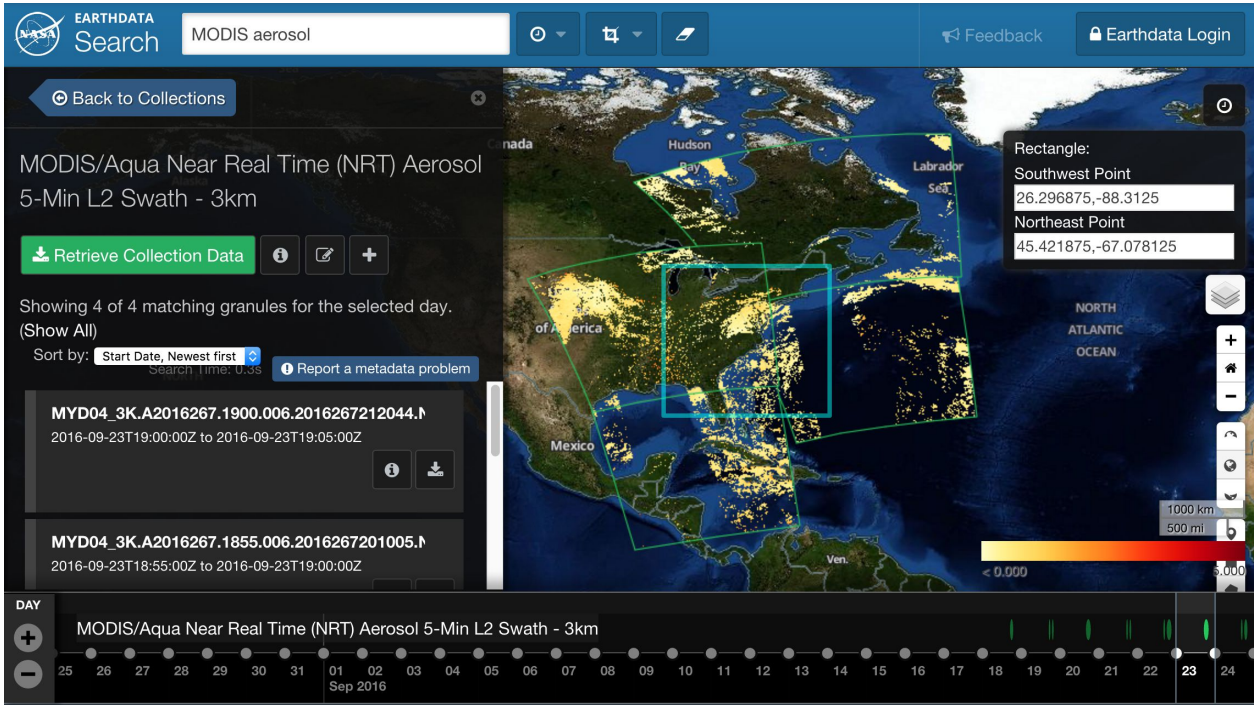
Brief Recap from Yesterday

- Visualization
  - The Global Imagery Browse Services (GIBS) provides full-resolution imagery via web services for 200+ EOSDIS collections (a fraction of the total)
  - The Worldview client provides an interface for all GIBS products and will continue to categorize its layers into NRT application areas



Brief Recap from Yesterday

- Search and Order
  - The Common Metadata Repository (CMR) is a database for **ALL** collections (over 30k) available through EOSDIS
  - The Earthdata Search client provides a window into all collections in CMR



Let's Customize Earthdata Search

- It has all EOSDIS collections + some from the outside

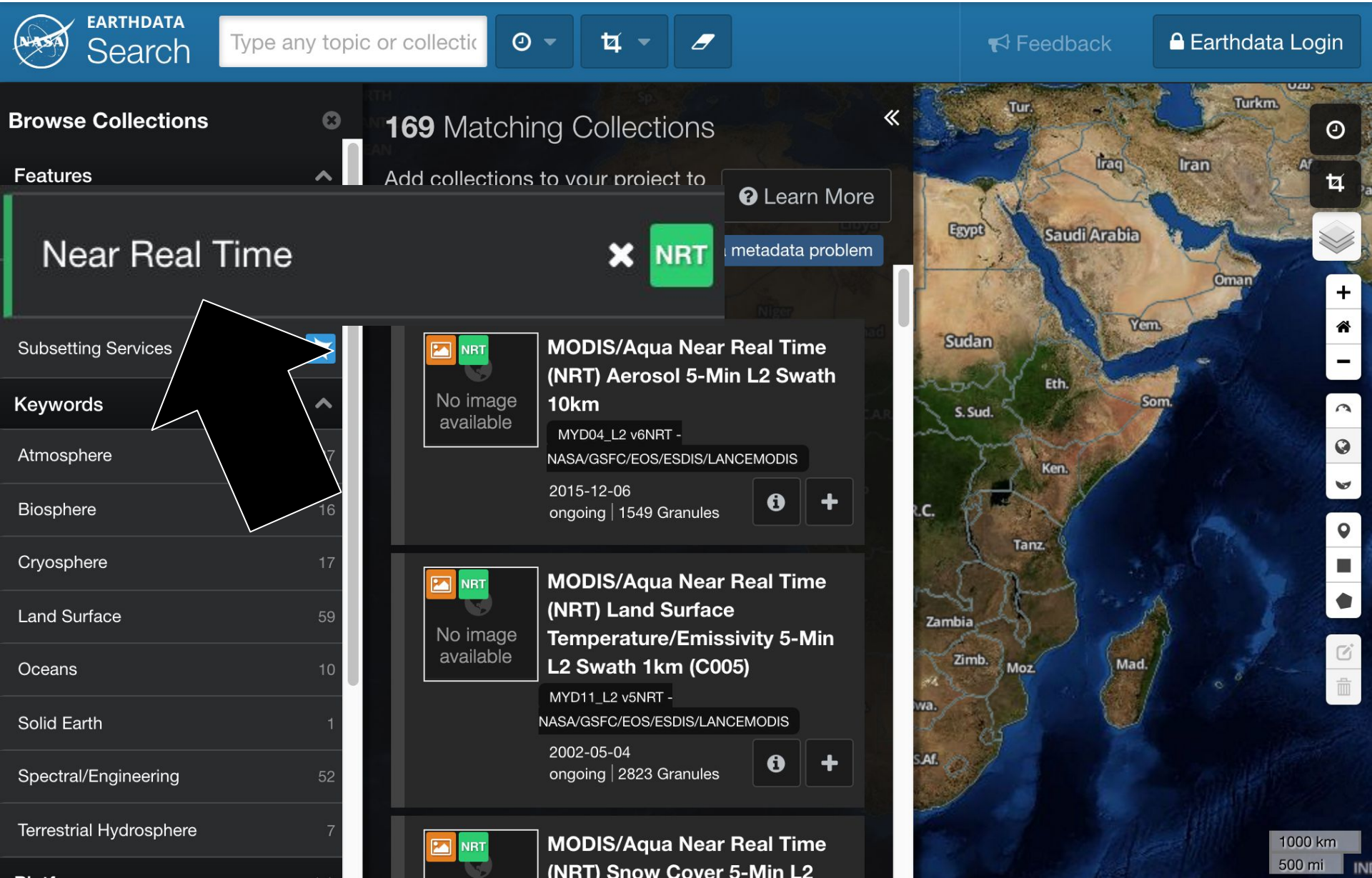
- It's probably easier to add new products, as needed

Disclaimers

- The proposed approaches are relatively simple and are based upon what can be achieved “now”

- There have been many great ideas for portal capabilities discussed at this workshop; we want to hear them! (and HQ will need to fund them)

Existing Approach

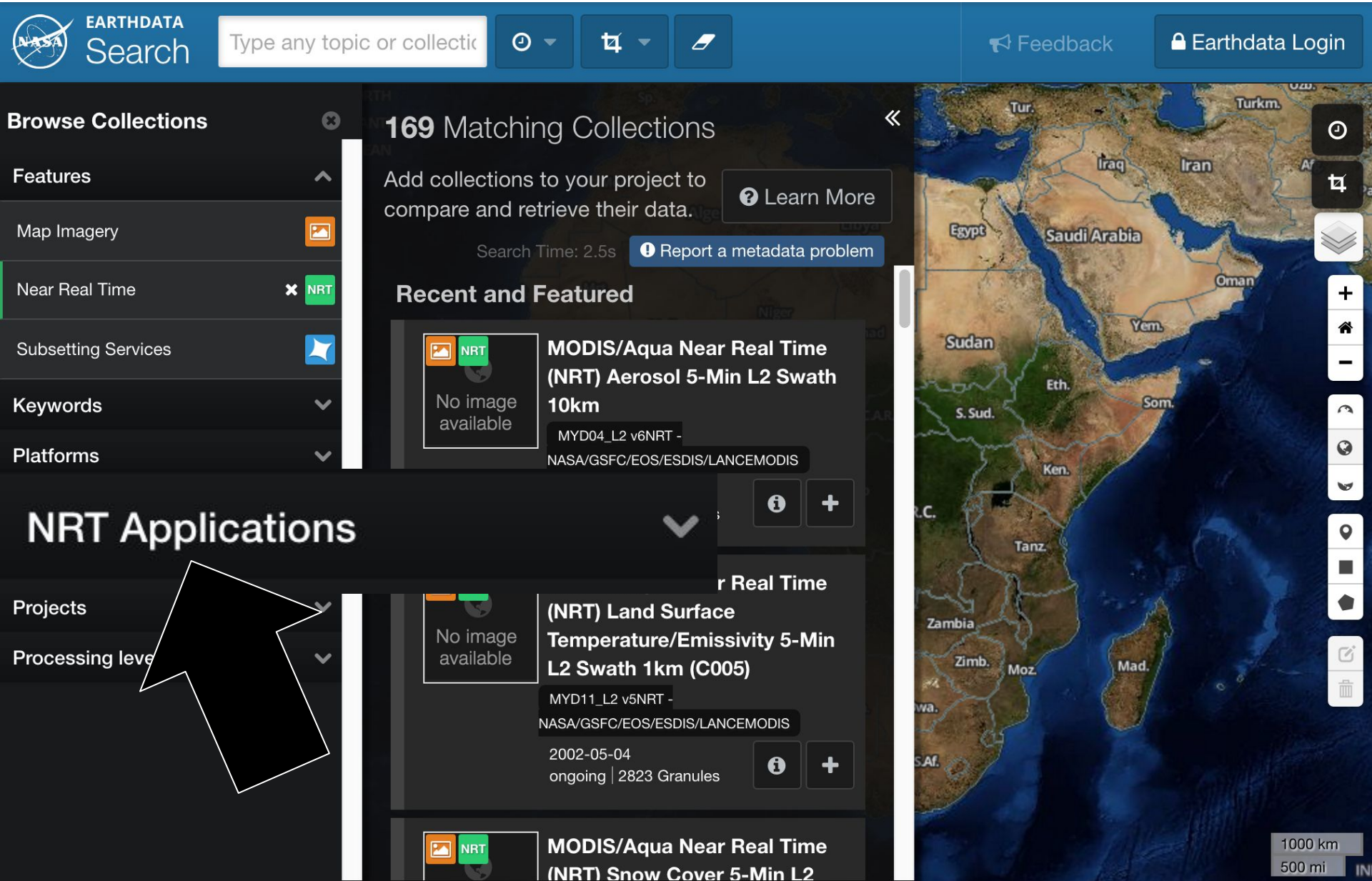


Proposed Enhancement #1

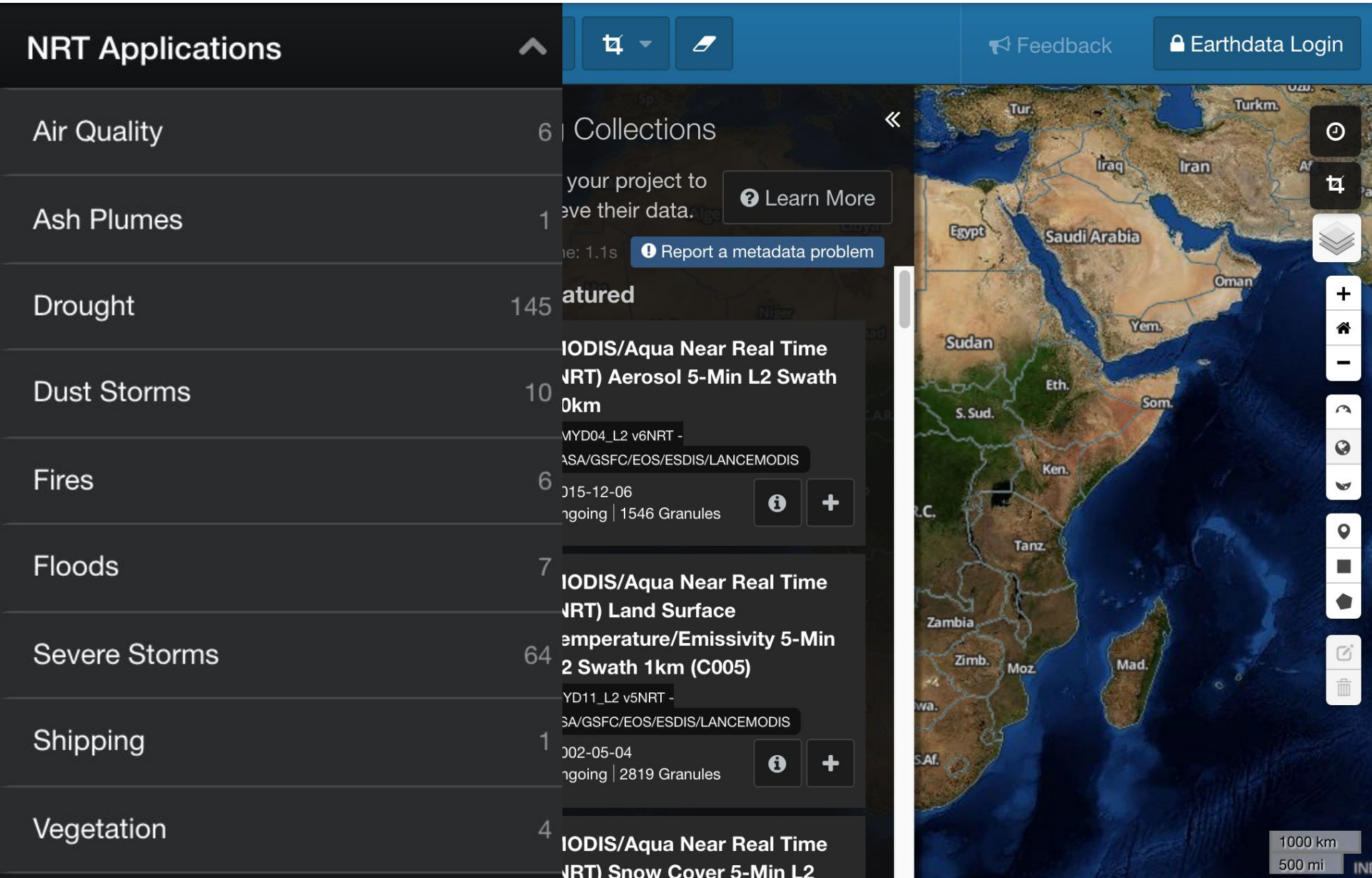
- Extend existing Earthdata Search client: https://search.earthdata.nasa.gov/

- Apply NRT application-specific tags to collections
  - E.g., Add “Air Quality” or “Severe Storms” tags to create a new set of facets

Proposed Enhancement #1



Proposed Enhancement #1



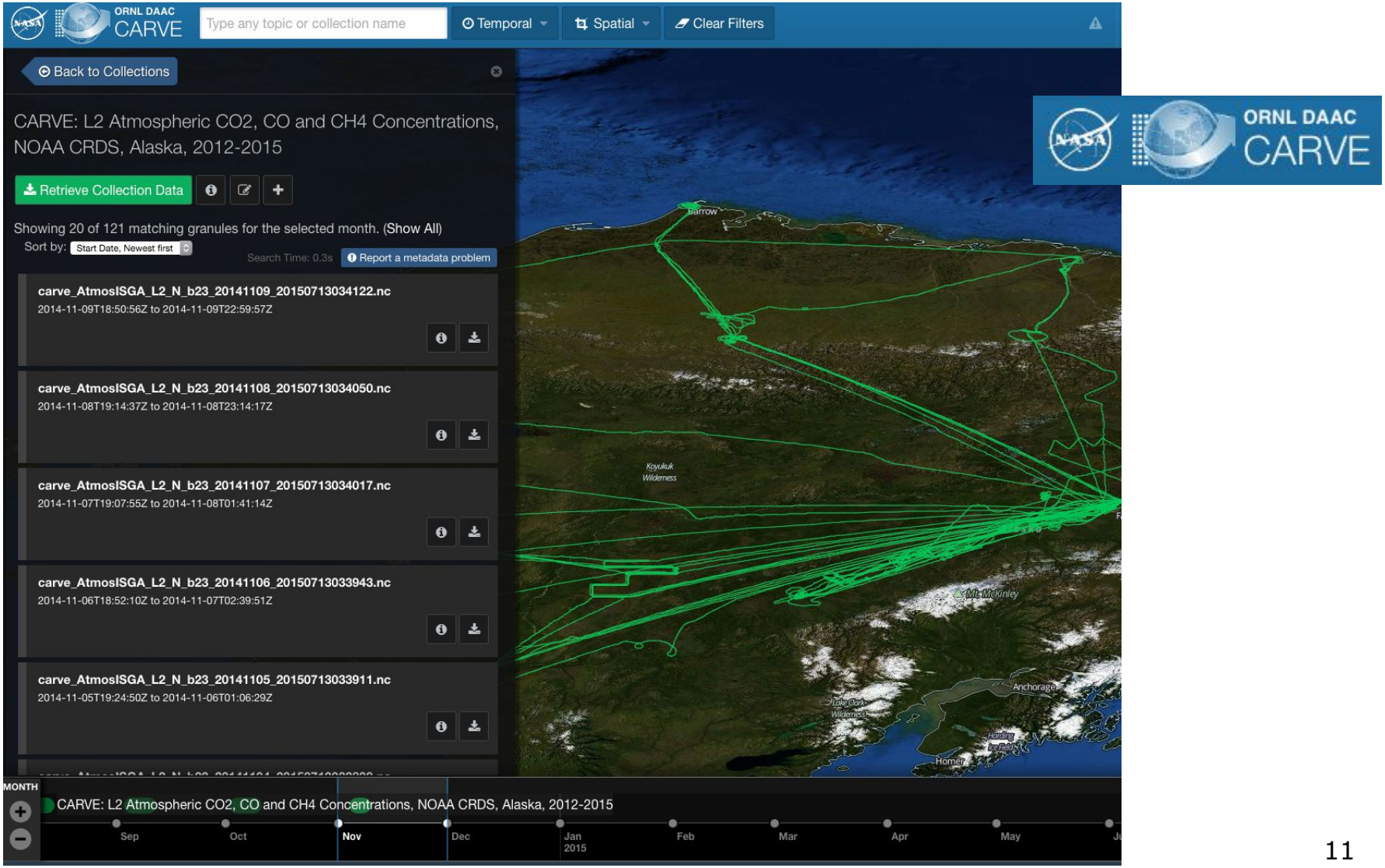
Proposed Enhancement #2

- Take what we've done with Enhancement #1

- Then create a customized Earthdata Search client which only has NRT collections in it: https://search.earthdata.nasa.gov/portal/nrt/

Existing Example: CARVE Portal

https://search.earthdata.nasa.gov/portal/carve/search



Steps to Make This a Reality

1. Ensure all metadata needed is available in the Common Metadata Repository (CMR)

2. Complete the categorization of collections into NRT application areas in this workshop

3. Tag NRT collections with appropriate application area(s) in CMR

Steps to Make This a Reality

4. Work with Earthdata Search team to include the NRT application area facets and customize the portal accordingly

Takeaways / Questions

- Would either of these approaches be helpful?

- If so, are there strong preferences?
  - #1: Just add Application Area facets
  - #2: Custom portal + facets from #1